Field Trip No. 21

North-western N.S.W. & south-western Queensland

May 3rd — May 25th 1949

K. H. L. Key

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[Plant determinations by Nancy Burbidge]

3/5.

12537 YASS

12545 Bowning

558 Binalong

577 Murrumbidgah

12587. Blakelyi, Stipa sp., Bothriochloa or Dichanthium 2-3ft. and tall rush-like grasses at creek edge in places. Also shorter Stipa variabilis with bare patches. Apparently good Eragrostis habitat. no Acrids.

589. Wombat.

597. Young. 633. Albens, Callitris glauca along creek fringed with dense 1-2 ft. Dichanthium, coarse Cyperaceous tussocks 1-5ft., Paspalum dilatatum in places. Away from creek, sparse, mainly short-grazed Stipa variabilis, much bare ground. Pycnosticha seriata 666. Forbes.

4/5. 12743. Broth. 12748. Narromine

NB. All mileages are short by 5%.

to 30 ft

7/5/49. 12803. Trangie. 12808. Nyall Nundi. E. populifolia with occ. melanophloia on soil type 2, and A. pendula on soil type 7. Much bare ground on 231 loci; mull vegetated, + nyall. Completely removed on 7, pasture mainly Dichanthium, Panicum sp., Sporobolus Caroli. Also intermediate soils. Pycnostictus seriatus, Acrida (2). Chot. on 7 & intermediates, other spp. on 2 & Acrida

12818. Populifolia - C glauca with bulloak, from Dodalea australis, Peaksia procomaculata, almost virgin to cleared. Pasture various, with much bare ground in parts. On soil type 2. Acrida, Chot., Pycnostictus seriatus, Ecphantus (2). 823. Austroicetes inhericonis

Tweertine. 12829. Almost completely cleared from popul. Geijera, Apophyllum on 3-4, leading into an E. bicolor swamp with fine Cyperaceae to 9 ins. Chloris truncata, Stipa variabilis, Hordeum & Atriplex leptocarpum, Chot. Much bare ground. Pasture mainly low. 231 Belaringar 842. Mullengudgery. 842. Plain of very heavy grey soil with occ. less heavy, almost compact, patches. On heaviest soil, Kochia aphylla, K. spp., Atriplex spp., Salsola, Rhagodia, Bassia quinquecuspis. Also large patch mull on less heavy soil, & silky, almost compact soil, patch of A. vesicaria. Only one Acrida, nymph of ? Perolybraea. Atriplex spicies. 12847. E. bicolor on mainly compact to [Atriplex semibaccata] Austroicetes pusilla

Acacia sp. n. 2, Keysaria interpres, Genus nov 5 (?)
4-type brown soil with numerous Amphipeas micaceum
underneath, occ. Rhagodia, Kochia spp. & Bassia
spp. Leading up to slightly higher ground with
more compact brown soil bearing Hunderia, with
occ. Atalaya, Ventilago, mild orange, rosewood; the
same A. micaceum, but a low growth also of Bassia
spp. & soft-leaved ? Kochia. Consid. bare ground in
both communities. All the Acrids collected were
from the Hunderia community. 12849. Mowera
857. Nyngan.

Ecphantus sp., Ocdalus australis,
875. 12858. Nyngan. 862. Consid. thinned from populifolia,
Peakesia fusconaculata, Chortoicetes terminifera, Austroicetes
Geijera, Heterodendron occ. Callitris glauca & Apophyllum
pusilla, A. interioris
on red. sandy loam. Pasture mainly very short &
heavily overgrazed, but in one paddock Stipa variabilis &
Salsola to 8 ins. Much bare ground. 871. Nandetta.
Ecphantus sp., Ocdalus australis, Acrida conica,
872. Populifolia, Callitris glauca, Geijera, Eremophila Mitchellii,
Cryptobothrus chrysophorus, Pycnostictus seriatus,
occ. Capparis Mitchellii, Acacia excelsa, ranging from
Peakesia fusconaculata, Austroicetes interioris
virgin to heavily thinned. Much bare ground, some of
it with fairly small quartz stones. Patches of
fairly dense Aristida jerichoensis, Stipa variabilis
Austroicetes interioris,
& Chloris truncata to 1 ft. Chort. 883. E. Populifolia, interested,
Monistria pustulifera inter P. pustulosa & P. mallee (R), Macrotona sp., Eleniaga sp.,
Geijera, occ. Acacia excelsa on red-brown sandy loam,
Ecphantus sp., Ocdalus australis, Hiolopus tammuhes, Pycnostictus
with small quartz stones in place. Large area
seriatus, Urnisa guttulosa, Peakesia fusconaculata,
of dense Dichanthium & Themeda to 2-3 ft., with about

Of the two Nomisteria collected here, one was dead & partly crushed, the other alive but forcibly decapitated. Possibly both had been attacked by a predator which found them distasteful.
Bare ground in between. Acrida, Chor., Oed. 12885.
Birkalla.
Hemidale. 892. F. populifolia, C. glauca, occ. A. excelsa.
Acrida conica, Psycnostichus sciatus, Phaulacridium sp. n.,
Pasture mainly Aristida jerichoensis to 1ft., with
Genus nov. 5(?), Peakesia fusconaculata, Austroicetes
numerous bare areas & low Bassias on their edges &
interioris
under trees. Mainly greatly thinned, but some near
virgin. Acrida, Chor., Psycnostichus sciatus. Oed 908. Took
Canbelego turn-off. 910. Canbelego. 912. Turn-off again
Cuphasella sp., Genus nov. 28, Conplusticus sp., Gonibka sp.,
915. Mt. Boppy. Coarse sandstone, mainly red-brown,
Ephantubis sp., Psycnostichus sciatus, Perbellia picta, Apotropia
with inclusions. Mountainside a brown with
sp., Peakesia fusconaculata, Macrozfolia sp., Rather sparse
angular stones from 6mm. diam. to 18 mm. / Calltrin
Azelota sp., Nachotona? Eucalyptus morrisii acuriformis
glauca & a stunted one. to 15ft. (spec.). Tussocky
Chostoicetes terminifera
grass (Danthonia sp.). Oed. The Macrozfolia on lower
Took
slopes only. 915. / Booromugga turn-off. 921 turn
Conplusticus sp., Peakesia fusconaculata
round. 922. Stunted E. populifolia & E. intertexta,
[Eucalyptus viridis]
with a true mallee (2 species), C. glauca, & Eucalyptus
Geijera, Eremophila Mitchelli, quandong, Cassia
sp., Acacia sp., & very occ. mulga. Chor. Oed. 927.
railway station
Return to Mt. Boppy / 953 Cobar.
Aciotus tumulus, Peakesia
9/5. 953. Cobar. 958. Populifolia, yarran, buddah,
fusconaculata
currant-bush & Eremophila Sturtii, from near virgin
with practically no grass, but shrubby Kochia
(spec.) to 8ins., to cleared with very low growth
of Medicago? laciniata & some conch. Along table-
drain Dichanthium & Cyperaceae. Aciotus in latter

12959. [Kochia triptera]
habitat. 962. Northerly outlier of Mt. Ma Biddaberra, of about the same height & appearance as the mountain proper. Stones & rocks of sandstone, no quartz inclusions. Slope gradual, - no tussocky grasses. Open stand of Hakea? leucoptera, mulga, leopardwood, rosewood, [Eucalyptus morrisii] lulah, budda, mulga, currant-bush, & E. Dwyeri? (spec) Ground almost entirely bare, heavily overgrazed & eroded. Very sparse growth of recent germinations, still small. No Herbs. 977. Eremophila spp., Yaran, Peakesia fasciculata occ. mulga & currant-bush, thinned & cleared. Good growth of tussocky grasses to 18ins.: Dichanthium, Aristida? jerichoensis, Chloris acicularis, with some short growth. Acacida. 989. Meadows "Hotel". ← Pycnostictus seriatus 992. E. populifolia, E. intertexta, & shrubby [Acacia brachystachya] occ. C. glauca, A. excelsa, & Kurrajong, ~~occ~~ / Acacia sp. (spec.). Morabba sp., Gonioca sp., Pycnostictus seriatus, Austrostipa Redbrown sandy loam. Sparse dead tussocks of Stipa sp. interioris & Aristida sp. Includes part of a stony (sandstone) Austrostipa interioris gentle rise. 999. Populifolia, C. glauca, mulga, Hakea ? leucoptera on red sandy soil, - with patches of harsh tussocks of Eragrostis sp. & Aristida sp. Chat. Ord., Pycnostictus seriatus. 13005. Bamato Tank to left. 13008. Bamato Tank to right. Pop.-intertexta-pine. 010. Lily vale / entrance 012. Casuarina lepidophloia, Hetero dendron, mulga, Currant bush, occ. populifolia & C. glauca on brown loam with numerous laterite & some

sandstone stones 1–5 ins. diameter, with gilgais. All ground vegetation absent except for recent germination of dicots. ca. 1–2 ins. high in follows. No Acrids. 3024. Bor turn-off to Bulla Park Sta. 029. Turn round. 031. Patch of mallee on two low sandy hills to left. Regrowth mainly to 10ft. of plants originally 20ft. Basal bark rough, above that coming off in ribbons. Plant very like intexta (spices from 2 trees). [Eucalyptus oleosa var. glauca] no green ground layer. Completely dry grass tussocks at ca. 2ft. intervals. Only 2 or 3 nymphs. 034. Return to main road 10/5. 035. Camp site. Scalds originally occupied by an Acacia (spec.) to 12ft., + fringed with E. intexta, populifolia the Acacia sp.+ occ. mulga. Morabo [Morabaasinnosp. P30] found amongst completely dry Stipa tussocks which were fairly frequent on scald margin. [Acaciaturkistii] 036. Jacobsvell 045. Belah-rosewood with occ. yarran, eremophila, tall green? Myoporum, + very occ. populifolia. Also patch of mulga on higher sandy ground, with v. occ. populifolia. Grounds cover almost completely dry Bassia sp. (spec.), + dry grass tussocks in patches no Acrids. 056. Large patch of mallee (coarse sp. as at Bulla Bk), on somewhat raised sandy area; adjacent to patch of mulga on lower ground. Both pure stands-

Dead grass tussocks 3ins – 1ft. One Coryphistes? nymph only. Scarab larvae from under rabbit carcases in mallee. B058. Mt. Woolakulkra to left (67 mile peg from Mulcannia). 065. Road angles slightly to right. 067. Nebee on flat, with occ. Heterodendron. Ground cover mainly low semi-dead Bassia sp., occ. grass tussocks (dry), & recent germinations. Adjacent red-brown sandy rise, cleared from mulga & occ. Heterodendron. One patch of wiry Eragrostis tussocks, eaten to 6ins, in which the ? Macrotona was found. Other spp. collected from nebee. Trogid & larva in association & Pycnostictus.

Genus nov. 16(?), Austroicetes interioris

071. Road angles slightly to right. 074. Road angles considerably to right. Ivanhoe turn-off to left.
079. (1) Treeless brown loam with numerous sandstone stones, mainly coated with usually purple deposited material. Slight tendency to puffs & crabholes. Low vegetation to 6ins. of Bassia tricuspis, B. spp. (3 specs) & Atriplex? spongiosa. Also gutters running from here to Lake Poopalloe to north; these fairly sandy, with slightly more & larger plants around fringes.

[Bassia lanicuspis, B ventricosa, B. obliquicuspis]

(2) These gutters run on to edge of lake, where coolibah occurs in open stand on the sand (presumably on heavier soil nearer to lake).

Urnisa guttulosa, Peakesia fuscomaculata

Chop. in (1). Pycno. & Urnisa, Peakesia & Ecphantus in (2), others in (1).

13085. Northern tip of McCulloch's Range, overlooking Austroicetes interioris
lake Koopalloe. The range is very gently sloping with practically no rock exposures. Brown to red-brown loam with sandstone stones, sometimes smoothed with deposit, usually not, av diam. ca. 3 ins, various colours. Mulga to 15ft, with [Acacia tetragonophylla]
Acacia sp. (spec.) to 6ft. Bassia birsipis in patches, small grass tussocks eaten to 2 ins & dead, and fresh germination 1-2 ins. high. Chot. Pycnosticheus seriatus, Chortoicetes terminifera, Austroicetes
099. Very open Hunderaca, with Heterodendron, belah, interioris
occ. mulga, Eremophila? Stastii, & Dodonaea, on red-brown sandy loam. Good cover of tussocky grass (mainly dry), and sparing germination of bassia spp. &, Salsola & grass. Ord. 13111. Junction with Swanhoe road. 116. Plain with several spp. of erect Atriplex, not exceeding 6 ins., & a few Bassia, on pale grey self-mulching to soft-scalds type soil. Ground cover both dead & alive — patchy. 123. Mulcamira
Chortoicetes terminifera Dodonaea sp.,
115, 125. Mulcamira. 126. Kochia pyramidata & another
[Kochia tomentosa var. appressa] Asteloa sp. [Bassia decurrens]
Kochia (spec) (occasional), with low Bassia sp.
Morabia asinus, Pycnosticheus seriatus, Callitica variegata,
(spec) & Atriplex spongiosum to 4 ins, on red-brown
Austroicetes interioris 138.
sand. 132. Mulga Valley Tent? [illegible] Turn-off to
Mena Murtie to left. 141. Sparse mulga & Eremophila

Morata asigma, Ummisa guttulosa, Callitexa variegata,
Sturtia (?) on broad-low rise. Stabilised red-brown
Aydota sp.
sand to sandy loam with dry grass tussocks to
4 ins. & recent germination of dicots. to 2 ins.

Chost. Ephedra sp. (?) 13143 Broken Hill town-off to left.
Ephantus sp. [Eremophila duttonii] Eumit nov. 16(?).
156. Mulga, Leopardwood, Eremophila ? Sturtii, Dodonaea,
Pyrobotrichus sciatus, Ummisa guttulosa, Peakesia (stabilised
considerably thinned, on red sand, mostly ~~Compacted~~
thinly) fuscomaculata, Callitexa variegata
Tussocks of Eragrostis sp. to 12 ins by 12 ins, other
Tragus
grasses, including ~~Paspalidium~~, some Bassia,
161 [Eremophila maculata]
Solanum & other dicots. Chost. 169. Mulga on sandy
Ephantus sp. Peakesia fuscomaculata
rise leading down through Eremophila Sturtii to
broad
E. polybifolia woodland lining a sandy tributary
watercourse. Tussocks of Aristida Behriana
among mulga, also Luttongrass. Mainly Lutton-
grass beneath trees; on watercourse Dichanthium
sedges, Asbebla lappacea or pectinata & Lutton grass.
Bepleusia sp., Ephantus
Chost. 172. Bunker Creek. 174. Mulga & open Acacia
sp., Peakesia fuscomaculata, Austrotriches interioris
in open stands to 15 ft, mainly Less, on gibber
downs, av. size of stones 2 ins, brown loam,
poorly-developed
much fine purple gravel, some mulga. .
mulgas bear Dichanthium & other grasses.
[Bassia longicuspis]
Bassia & small saltbushes, open gibber
areas only Bassia freshly germinated 2-5 ins.
12/5 Bepleusia sp., Chortoriches
Chost. 185. White Cliffs. 187. Hill ca. 1 mil. SE. of White
terminifera
Cliffs, bearing mulga with large gibber stones on

? Leptospermum.

13188.

Acacia fuscoviridis, Chortoicetes terminifera

Acacia fuscoviridis, [illegible]

[Acacia loderi]

Kunzea. Clavis. The [illegible] 213. Th. Post. — Allen, Ronald K. [illegible]

Anchoicetes interioris

K. pyramidata + K. recifensis, [illegible]

13214

[Atriplex inflata]

[Atriplex fissivalvis]

13262

Chortoicetes terminifera

[Lachycoria tenuis]

[Abutilon otocarpum?, Atriplex spongiosa, Emex spinosa]

13324.

[Triraphis mollis]

[Baccia decurrens]

[Diplachne fusca]

Chortoicetes terminifera

(Tuft)

[Acacia cambagei]

Chortoicetes terminifera

1366.

Monostria pustulifera mallee (R)

1916.13397.

[Tremophila froelingii]

Chort ~~mum atrorum~~ B430. Kumuto road. 4

[Tremophila polyclada]

Peaksia sp.

Peaksia sp., Perrimus

(buntamurra (R), Chortoicetes terminifera

13469.

Anotroicetes inferioris [Acacia aneura]

[Cassia phyllodinea] [Scaevola spinescens]

[Eremophila latrobei]

5512 Chortoicetes terminifera

1357

[Raccia bicornis]

[Atriplex spongiosa]

Chrysoptichum ... Chrysoptichum ... Chrysoptichum terminifera

on lower slope 5900 ft. direction with warm teste — Chrysoptichum sp.

Perchybrana sp.

[Atriplex spongiosa]

[Alyssum zygophylloides]

(Rock identification by Dalwitz, Bureau of Mineral Resources)

(sp) ← altered shale or siltstone and knotted schist (very low grade)

altered shale or siltstone → (sp)

(sp) ← Quartzite, + hornfels (fairly siliceous) derived from siltstone or "impure" [illegible]

no!

(sp) ← fine clayey sandstone

haematitic shale, or limonite with clay. Also hollow concretions in haematitic shale, containing clay and coated with manganese oxide.

milky quartz →

siltstone →

sandy siltstone →

Monistria pustulifera
mallee (R)

On return via Broken Hill, Pardillana sp. and Goniaea macronotum were found sitting on the drooping branches of Eucalyptus camaldulensis,

usually near the ground, and usually on the leaves rather than the branches. The trees were lining Evelyn Creek. The insects were in groups, clearly indicating a mutual attraction transcending the bounds of species, usually on parts of the tree exposed to the sun & sheltered from the wind. (Mileage of transport vehicle : 04443. Milpainka 639.)

513

15

Creek 1½ mls. 1½ mls further strike Acacias & track goes round to right. 4 mls further to grid. N. 17 20.
2 mls further to bloodwood creek – Cross that. 2½ mls 22
to Big Dingera (ruins). 10 miles further to little Dingera 25 35
(good road). At little Dingera, if water too deep go up
3 mls to left. Straight on past stockyard leaving
it on right, and leaving tank on left. 7 miles from
little Dingera to Warrijeo.

~~Go through gate keep left~~ for about a mile. ~~Don't turn main road at first gully.~~ Turn right at gully (½ mile) for Olive Downs.
Then 6 miles further to Olive Downs. Then come back
on same track. Turn left after third cyclone gate
from Olive Downs (broken down gate).

White Cliffs to Meilpa

White Cliffs — pass signposts. Leave race-course on right. Go 7 miles to Roads 194 on left, keeping to right hand straight on road. Another 7 miles to Boundary Tank 202 on right, with windmill. 14 miles to Peak Tank (windmill) on right, also The Peak on right. At Peak Tank 214 but go straight down fence along the right hand road. 10 miles from Peak Tank to Kayrunnera 226, come to a woolshed (signboard), pass between it and men's Kitchen, or call in at homestead 100 yds. from road. Go over creek 229 & take first left hand road 231 for ca. 20 - 22 miles to Wonominta. Road goes right to homestead: enquire for further directions. Will enter Wonominta - Kayrunnera road about 9 miles from Kayrunnera 234. Go in to Meilpa to enquire re. deviations to Tibooburra. Meilpa is visible ca. 1½ miles from main B.H. - Tibooburra road. ~~214. Peak Tank. and Broken Hill turn-off to left.~~

Tibooburra to Tickalara

Signboard at 11 miles.

Go out ~~7~~ ca. 20 miles, taking all right hand turns except at ca. 11 miles, when take middle road of 3. Then take right hand fork to Wonepah Station (further 16 miles). Then 7 miles to Pyampah Sta. Then 4 miles to hit Yalpenga - Tickalara road. Pass the old Tick. homestead & go 2 miles north to new homestead. Then back to old homestead & on to Haddesfield road. Police at Noccundra

Tickalara to Bransby.

Return towards old homestead, & just before two stones, within perhaps ½ mile of homestead, road turns to right & links with road from old homestead to Bransby. Ca. 3 miles further on go through an old fence. Ca. 2 miles further go through new fence with no wire on. Pass two tanks together on right. Cross creek & ca. 9 miles from two tanks see a windmill on right. Ca. 3 miles further strike fairly new fence & go through wire gate. Ca. 3 or 4 miles further come on to Noccundra - Nappacka road. Turn right, leaving a yard on left (Little Dingera). 9 miles further to Big Dingera (old stone ruins). 12

miles further to Bramsby.